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SEQUENCE LISTING

<110> Lyamichev, Victor
Allawi, Hatim
Dong, Fang
Neri, Bruce
Vener, Tatiana

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<210> 81

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 81
ccagaccgcc gggcccca 18

<210> 82

<211> 119

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 82
cgccgcgatc aaggagttct tcggcaccag ccagctgagc caattcatgg accagaacaa 60

cccgctgtcg gggttgaccc acaagcgccg actgtcggcg ctggggcccg gcggtctgg 119

<210> 83

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 83
cagaccgccg ggccccag 18

<210> 84

<211> 118

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 84
cgccgcgatc aaggagttct tcggcaccag ccagctgagc caattcatgg accagaacaa 60

cccgctgtcg gggttgaccc acaagcgccg actgtcggcg ctggggcccg gcggtctg 118

<210> 85

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 85
gagaccgccg ggccccag 18

<210> 86

<211> 118

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 86
cgccgcgatc aaggagttct tcggcaccag ccagctgagc caattcatgg accagaacaa 60

cccgctgtcg gggttgaccc acaagcgccg actgtcggcg ctggggcccg gcggtctc 118

<210> 87

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 87
ccgccgggcc ccagcgccga 20

<210> 88

<211> 114

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 88
cgccgcgatc aaggagttct tcggcaccag ccagctgagc caattcatgg accagaacaa 60

cccgctgtcg gggttgaccc acaagcgccg actgtcggcg ctggggcccg gcgg 114

<210> 89

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 89
gcgccgggcc ccagcgccga 20

<210> 90

<211> 114

<212> DNA

<213> Artificial Sequence

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<400> 90
cgccgcgatc aaggagttct tcggcaccag ccagctgagc caattcatgg accagaacaa 60

cccgctgtcg gggttgaccc acaagcgccg actgtcggcg ctggggcccg gcgc 114

<210> 91

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 91
cggccgggcc ccagcgccga 20

<210> 92

<211> 114

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 92
cgccgcgatc aaggagttct tcggcaccag ccagctgagc caattcatgg accagaacaa 60

cccgctgtcg gggttgaccc acaagcgccg actgtcggcg ctggggcccg gccg 114

<210> 93

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 93
cgggccccag cgccgaca 18

<210> 94

<211> 110

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 94
cgccgcgatc aaggagttct tcggcaccag ccagctgagc caattcatgg accagaacaa 60

cccgctgtcg gggttgaccc acaagcgccg actgtcggcg ctggggcccg 110

<210> 95

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 95
agggccccag cgccgaca 18

<210> 96

<211> 110

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 96
cgccgcgatc aaggagttct tcggcaccag ccagctgagc caattcatgg accagaacaa 60

cccgctgtcg gggttgaccc acaagcgccg actgtcggcg ctggggccct 110

<210> 97

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 97
ccccagcgcc gacagtcg 18

<210> 98

<211> 106

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 98
cgccgcgatc aaggagttct tcggcaccag ccagctgagc caattcatgg accagaacaa 60

cccgctgtcg gggttgaccc acaagcgccg actgtcggcg ctgggg 106

<210> 99

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 99
tcccagcgcc gacagtcg 18

<210> 100

<211> 106

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 100
cgccgcgatc aaggagttct tcggcaccag ccagctgagc caattcatgg accagaacaa 60

cccgctgtcg gggttgaccc acaagcgccg actgtcggcg ctggga 106

<210> 101

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 101
cgcttgtggg tcaaccccga 20

<210> 102

<211> 87

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 102
cgccgcgatc aaggagttct tcggcaccag ccagctgagc caattcatgg accagaacaa 60

cccgctgtcg gggttgaccc acaagcg 87

<210> 103

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 103
agcttgtggg tcaaccccga 20

<210> 104

<211> 87

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 104
cgccgcgatc aaggagttct tcggcaccag ccagctgagc caattcatgg accagaacaa 60

cccgctgtcg gggttgaccc acaagct 87

<210> 105

<211> 16

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 105
gtgacagagt tgttct 16

<210> 106

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 106
gtgacagatt gttgttct 18

<210> 107

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 107
gtgacagagc gttgttct 18

<210> 108

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 108
gtgacagaaa gttgttct 18

<210> 109

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<220>

<221> misc_feature

<222> (9)..(10)

<223> The residues at these positions are spacers with abasic sugar labels.

<400> 109
gtgacagann gttgttct 18

<210> 110

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 110
tcacgtgagc gtccatga 18

<210> 111

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 111
cagaccgcgc acagcggg 18

<210> 112

<211> 17

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 112
gctcacgata ccccgac 17

<210> 113

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 113
tgctcacgat accccgac 18

<210> 114

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 114
cgccgggcgc tcaacccc 18

<210> 115

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 115
acagtcgggc ggttgttc 18

<210> 116

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 116
cgggccccta tgtgggtc 18

<210> 117

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 117
ctcacgtgta tctggtcc 18

<210> 118

<211> 16

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 118
tgacagacgt tgttct 16

<210> 119

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 119
ccccagcggc gttgttct 18

<210> 120

<211> 16

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 120
gtgtcgtttg gaaccg 16

<210> 121

<211> 16

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 121
tgggcgttgc ttgtgg 16

<210> 122

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 122
ttgggcgttg cttgtggt 18

<210> 123

<211> 13

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 123
tccttgatcg cgg 13

<210> 124

<211> 16

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 124
cttaaggtag gactac 16

<210> 125

<211> 16

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 125
catttccaa ccttaa 16

<210> 126

<211> 14

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 126
taaggtagga ctac 14

<210> 127

<211> 16

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<220>

<221> misc_feature

<222> (15)..(16)

<223> The residue at this position can be any nucleotide.

<400> 127
taaggtagga ctacnn 16

<210> 128

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<220>

<221> misc_feature

<222> (15)..(18)

<223> The residue at this position can be any nucleotide.

<400> 128
taaggtagga ctacnnnn 18

<210> 129

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<220>

<221> misc_feature

<222> (15)..(20)

<223> The residue at this position can be any nucleotide.

<400> 129
taaggtagga ctacnnnnnn 20

<210> 130

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<220>

<221> misc_feature

<222> (15)..(22)

<223> The residue at this position can be any nucleotide.

<400> 130
taaggtagga ctacnnnnnn nn 22

<210> 131

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<220>

<221> misc_feature

<222> (15)..(24)

<223> The residue at this position can be any nucleotide.

<400> 131
taaggtagga ctacnnnnnn nnnn 24

<210> 132

<211> 26

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<220>

<221> misc_feature

<222> (15)..(26)

<223> The residue at this position can be any nucleotide.

<400> 132
taaggtagga ctacnnnnnn nnnnnn 26

<210> 133

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<220>

<221> misc_feature

<222> (15)..(30)

<223> The residue at this position can be any nucleotide.

<400> 133
taaggtagga ctacnnnnnn nnnnnnnnnn 30

<210> 134

<211> 14

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 134
ttttccaacc ttaa 14

<210> 135

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<220>

<221> misc_feature

<222> (15)..(22)

<223> The residue at this position can be any nucleotide.

<400> 135
ttttccaacc ttaannnnnn nn 22

<210> 136

<211> 26

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<220>

<221> misc_feature

<222> (15)..(26)

<223> The residue at this position can be any nucleotide.

<400> 136
ttttccaacc ttaannnnnn nnnnnn 26

<210> 137

<211> 14

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<220>

<221> misc_feature

<222> (1)..(14)

<223> The residues in these positions are 2'-O-methyl nucleotides.

<400> 137
gtagtcctac ctta 14

<210> 138

<211> 14

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<220>

<221> misc_feature

<222> (1)..(14)

<223> The residues in these positions are 2'-O-methyl nucleotides.

<400> 138
ttaaggttgg aaaa 14

<210> 139

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<220>

<221> misc_feature

<222> (15)..(24)

<223> The residue at this position can be any nucleotide.

<400> 139
ttttccaacc ttaannnnnn nnnn 24

<210> 140

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<220>

<221> misc_feature

<222> (1)..(1)

<223> The residue at this 5' end has a tetrachlorofluorescein label.

<400> 140
ngcatcgttt tgggttctct t 21

<210> 141

<211> 987

<212> RNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 141
cacauuguuc ugaucaucug aagaucagcu auuagaagag aaagaucagu uaaguccuuu 60

ggaccugauc agcuugauac aagaacuacu gauuucaacu ucuuuggcuu aauucucucg 120

gaaacgauga aauauacaag uuauaucuug gcuuuucagc ucugcaucgu uuuggguucu 180

cuuggcuguu acugccagga cccauaugua caagaagcag aaaaccuuaa gaaauauuuu 240

aaugcagguc auucagaugu agcggauaau ggaacucuuu ucuuaggcau uuugaagaau 300

uggaaagagg agagugacag aaaaauaaug cagagccaaa uugucuccuu uuacuucaaa 360

cuuuuuaaaa acuuuaaaga ugaccagagc auccaaaaga guguggagac caucaaggaa 420

gacaugaaug ucaaguuuuu caauagcaac aaaaagaaac gagaugacuu cgaaaagcug 480

acuaauuauu cgguaacuga cuugaauguc caacgcaaag caauacauga acucauccaa 540

gugauggcug aacugucgcc agcagcuaaa acagggaagc gaaaaaggag ucagaugcug 600

uuucgagguc gaagagcauc ccaguaaugg uuguccugcc uacaauauuu gaauuuuaaa 660

ucuaaaucua uuuauuaaua uuuaacauua uuuauauggg gaauauauuu uuagacucau 720

caaucaaaua aguauuuaua auagcaacuu uuguguaaug aaaaugaaua ucuauuaaua 780

uauguauuau uuauaauucc uauauccugu gacugucuca cuuaauccuu uguuuucuga 840

cuaauuaggc aaggcuaugu gauuacaagg cuuuaucuca ggggccaacu aggcagccaa 900

ccuaagcaag aucccauggg uuguguguuu auuucacuug augauacaau gaacacuuau 960

aagugaagug auacuaucca guuacua 987

<210> 142

<211> 47

<212> RNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 142
ggugguggug ggcgccgucg gugugggcaa gagugcgcug accaucc 47

<210> 143

<211> 589

<212> RNA

<213> Oryctolagus cuniculus

<400> 143
acacuugcuu uugacacaac uguguuuacu ugcaaucccc caaaacagac agaauggugc 60

aucuguccag ugaggagaag ucugcgguca cugcccugug gggcaaggug aauguggaag 120

aaguuggugg ugaggcccug ggcaggcugc ugguugucua cccauggacc cagagguucu 180

ucgaguccuu uggggaccug uccucugcaa augcuguuau gaacaauccu aaggugaagg 240

cucauggcaa gaaggugcug gcugccuuca gugagggucu gagucaccug gacaaccuca 300

aaggcaccuu ugcuaagcug agugaacugc acugugacaa gcugcacgug gauccugaga 360

acuucaggcu ccugggcaac gugcugguua uugugcuguc ucaucauuuu ggcaaagaau 420

ucacuccuca ggugcaggcu gccuaucaga aggugguggc ugguguggcc aaugcccugg 480

cucacaaaua ccacugagau cuuuuucccu cugccaaaaa uuauggggac aucaugaagc 540

cccuugagca ucugacuucu ggcuaauaaa ggaaauuuau uuucauugc 589

<210> 144

<211> 2891

<212> DNA

<213> Homo sapiens

<400> 144
gcgccccagt cgacgctgag ctcctctgct actcagagtt gcaacctcag cctcgctatg 60

gctcccagca gcccccggcc cgcgctgccc gcactcctgg tcctgctcgg ggctctgttc 120

ccaggacctg gcaatgccca gacatctgtg tccccctcaa aagtcatcct gccccgggga 180

ggctccgtgc tggtgacatg cagcacctcc tgtgaccagc ccaagttgtt gggcatagag 240

accccgttgc ctaaaaagga gttgctcctg cctgggaaca accggaaggt gtatgaactg 300

agcaatgtgc aagaagatag ccaaccaatg tgctattcaa actgccctga tgggcagtca 360

acagctaaaa ccttcctcac cgtgtactgg actccagaac gggtggaact ggcacccctc 420

ccctcttggc agccagtggg caagaacctt accctacgct gccaggtgga gggtggggca 480

ccccgggcca acctcaccgt ggtgctgctc cgtggggaga aggagctgaa acgggagcca 540

gctgtggggg agcccgctga ggtcacgacc acggtgctgg tgaggagaga tcaccatgga 600

gccaatttct cgtgccgcac tgaactggac ctgcggcccc aagggctgga gctgtttgag 660

aacacctcgg ccccctacca gctccagacc tttgtcctgc cagcgactcc cccacaactt 720

gtcagccccc gggtcctaga ggtggacacg caggggaccg tggtctgttc cctggacggg 780

ctgttcccag tctcggaggc ccaggtccac ctggcactgg gggaccagag gttgaacccc 840

acagtcacct atggcaacga ctccttctcg gccaaggcct cagtcagtgt gaccgcagag 900

gacgagggca cccagcggct gacgtgtgca gtaatactgg ggaaccagag ccaggagaca 960

ctgcagacag tgaccatcta cagctttccg gcgcccaacg tgattctgac gaagccagag 1020

gtctcagaag ggaccgaggt gacagtgaag tgtgaggccc accctagagc caaggtgacg 1080

ctgaatgggg ttccagccca gccactgggc ccgagggccc agctcctgct gaaggccacc 1140

ccagaggaca acgggcgcag cttctcctgc tctgcaaccc tggaggtggc cggccagctt 1200

atacacaaga accagacccg ggagcttcgt gtcctgtatg gcccccgact ggacgagagg 1260

gattgtccgg gaaactggac gtggccagaa aattcccagc agactccaat gtgccaggct 1320

tgggggaacc cattgcccga gctcaagtgt ctaaaggatg gcactttccc actgcccatc 1380

ggggaatcag tgactgtcac tcgagatctt gagggcacct acctctgtcg ggccaggagc 1440

actcaagggg aggtcacccg cgaggtgacc gtgaatgtgc tctccccccg gtatgagatt 1500

gtcatcatca ctgtggtagc agccgcagtc ataatgggca ctgcaggcct cagcacgtac 1560

ctctataacc gccagcggaa gatcaagaaa tacagactac aacaggccca aaaagggacc 1620

cccatgaaac cgaacacaca agccacgcct ccctgaacct atcccgggac agggcctctt 1680

cctcggcctt cccatattgg tggcagtggt gccacactga acagagtgga agacatatgc 1740

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tacaacagca tttggggcca tggtacctgc acacctaaaa cactaggcca cgcatctgat 1860

ctgtagtcac atgactaagc caagaggaag gagcaagact caagacatga ttgatggatg 1920

ttaaagtcta gcctgatgag aggggaagtg gtgggggaga catagcccca ccatgaggac 1980

atacaactgg gaaatactga aacttgctgc ctattgggta tgctgaggcc cacagactta 2040

cagaagaagt ggccctccat agacatgtgt agcatcaaaa cacaaaggcc cacacttcct 2100

gacggatgcc agcttgggca ctgctgtcta ctgaccccaa cccttgatga tatgtattta 2160

ttcatttgtt attttaccag ctatttattg agtgtctttt atgtaggcta aatgaacata 2220

ggtctctggc ctcacggagc tcccagtcca tgtcacattc aaggtcacca ggtacagttg 2280

tacaggttgt acactgcagg agagtgcctg gcaaaaagat caaatggggc tgggacttct 2340

cattggccaa cctgcctttc cccagaagga gtgatttttc tatcggcaca aaagcactat 2400

atggactggt aatggttcac aggttcagag attacccagt gaggccttat tcctcccttc 2460

cccccaaaac tgacaccttt gttagccacc tccccaccca catacatttc tgccagtgtt 2520

cacaatgaca ctcagcggtc atgtctggac atgagtgccc agggaatatg cccaagctat 2580

gccttgtcct cttgtcctgt ttgcatttca ctgggagctt gcactattgc agctccagtt 2640

tcctgcagtg atcagggtcc tgcaagcagt ggggaagggg gccaaggtat tggaggactc 2700

cctcccagct ttggaagggt catccgcgtg tgtgtgtgtg tgtatgtgta gacaagctct 2760

cgctctgtca cccaggctgg agtgcagtgg tgcaatcatg gttcactgca gtcttgacct 2820

tttgggctca agtgatcctc ccacctcagc ctcctgagta gctgggacca taggctcaca 2880

acaccacacc t 2891

<210> 145

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 145
cccccaccac ttcccctctc 20

<210> 146

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 146
tgggagccat agcgaggc 18

<210> 147

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 147
gaggagctca gcgtcgactg 20

<210> 148

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 148
tgcccatcag ggcagtttga 20

<210> 149

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 149
gcccaagctg gcatccgtca 20

<210> 150

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 150
ctctctcaat ttggctct 18

<210> 151

<211> 33

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 151
aaagttttta aaaagtttga agtaaaagga gaa 33

<210> 152

<211> 14

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 152
ccccctttg gggg 14

<210> 153

<211> 30

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 153
ccctatcttt aaagttttta aaaagtttga 30

<210> 154

<211> 74

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 154
ccctatcttt aaagttttta aaaagtttga ccccctttg ggggccctat ctttaaagtt 60

tttaaaaagt ttga 74

<210> 155

<211> 15

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 155
cgcgcggaac gcgcg 15

<210> 156

<211> 16

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 156
cccgggtttt cccggg 16

<210> 157

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 157
aggcgcacca atttggtgtt 20

<210> 158

<211> 1621

<212> RNA

<213> Human immunodeficiency virus

<400> 158
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ugcuuaagcc ucaauaaagc uugccuugag ugcuucaagu agugugugcc cgucuguugu 120

gugacucugg uaacuagaga ucccucagac ccuuuuaguc aguguggaaa aucucuagca 180

guggcgcccg aacagggacc ugaaagcgaa agggaaacca gaggagcucu cucgacgcag 240

gacucggcuu gcugaagcgc gcacggcaag aggcgagggg cggcgacugg ugaguacgcc 300

aaaaauuuug acuagcggag gcuagaagga gagagauggg ugcgagagcg ucaguauuaa 360

gcgggggaga auuagaucga ugggaaaaaa uucgguuaag gccaggggga aagaaaaaau 420

auaaauuaaa acauauagua ugggcaagca gggagcuaga acgauucgca guuaauccug 480

gccuguuaga aacaucagaa ggcuguagac aaauacuggg acagcuacaa ccaucccuuc 540

agacaggauc agaagaacuu agaucauuau auaauacagu agcaacccuc uauugugugc 600

aucaaaggau agagauaaaa gacaccaagg aagcuuuaga caagauagag gaagagcaaa 660

acaaaaguaa gaaaaaagca cagcaagcag cagcugacac aggacacagc aaucagguca 720

gccaaaauua cccuauagug cagaacaucc aggggcaaau gguacaucag gccauaucac 780

cuagaacuuu aaaugcaugg guaaaaguag uagaagagaa ggcuuucagc ccagaaguga 840

uacccauguu uucagcauua ucagaaggag ccaccccaca agauuuaaac accaugcuaa 900

acacaguggg gggacaucaa gcagccaugc aaauguuaaa agagaccauc aaugaggaag 960

cugcagaaug ggauagagug cauccagugc augcagggcc uauugcacca ggccagauga 1020

gagaaccaag gggaagugac auagcaggaa cuacuaguac ccuucaggaa caaauaggau 1080

ggaugacaaa uaauccaccu aucccaguag gagaaauuua uaaaagaugg auaauccugg 1140

gauuaaauaa aauaguaaga auguauagcc cuaccagcau ucuggacaua agacaaggac 1200

caaaggaacc cuuuagagac uauguagacc gguucuauaa aacucuaaga gccgagcaag 1260

cuucacagga gguaaaaaau uggaugacag aaaccuuguu gguccaaaau gcgaacccag 1320

auuguaagac uauuuuaaaa gcauugggac cagcggcuac acuagaagaa augaugacag 1380

caugucaggg aguaggagga cccggccaua aggcaagagu uuuggcugaa gcaaugagcc 1440

aaguaacaaa uucagcuacc auaaugaugc agagaggcaa uuuuaggaac caaagaaaga 1500

uuguuaagug uuucaauugu ggcaaagaag ggcacacagc cagaaauugc agggccccua 1560

ggaaaaaggg cuguuggaaa uguggaaagg aaggacacca aaugaaagau uguacugaga 1620

g 1621

<210> 159

<211> 1771

<212> RNA

<213> Human immunodeficiency virus

<400> 159

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gaaguaauac cacuaacaga agaagcagag cuagaacugg cagaaaacag agagauucua 180

aaagaaccag uacauggagu guauuaugac ccaucaaaag acuuaauagc agaaauacag 240

aagcaggggc aaggccaaug gacauaucaa auuuaucaag agccauuuaa aaaucugaaa 300

acaggaaaau augcaagaau gaggggugcc cacacuaaug auguaaaaca auuaacagag 360

gcagugcaaa aaauaaccac agaaagcaua guaauauggg gaaagacucc uaaauuuaaa 420

cugcccauac aaaaggaaac augggaaaca ugguggacag aguauuggca agccaccugg 480

auuccugagu gggaguuugu uaauaccccu cccuuaguga aauuauggua ccaguuagag 540

aaagaaccca uaguaggagc agaaaccuuc uauguagaug gggcagcuaa cagggagacu 600

aaauuaggaa aagcaggaua uguuacuaau agaggaagac aaaaaguugu cacccuaacu 660

gacacaacaa aucagaagac ugaguuacaa gcaauuuauc uagcuuugca ggauucggga 720

uuagaaguaa acauaguaac agacucacaa uaugcauuag gaaucauuca agcacaacca 780

gaucaaagug aaucagaguu agucaaucaa auaauagagc aguuaauaaa aaaggaaaag 840

gucuaucugg cauggguacc agcacacaaa ggaauuggag gaaaugaaca aguagauaaa 900

uuagucagug cuggaaucag gaaaguacua uuuuuagaug gaauagauaa ggcccaagau 960

gaacaugaga aauaucacag uaauuggaga gcaauggcua gugauuuuaa ccugccaccu 1020

guaguagcaa aagaaauagu agccagcugu gauaaauguc agcuaaaagg agaagccaug 1080

cauggacaag uagacuguag uccaggaaua uggcaacuag auuguacaca uuuagaagga 1140

aaaguuaucc ugguagcagu ucauguagcc aguggauaua uagaagcaga aguuauucca 1200

gcagaaacag ggcaggaaac agcauauuuu cuuuuaaaau uagcaggaag auggccagua 1260

aaaacaauac auacugacaa uggcagcaau uucaccggug cuacgguuag ggccgccugu 1320

uggugggcgg gaaucaagca ggaauuugga auucccuaca aucccccaaag ucaaggagua 1380

guagaaucua ugaauaaaga auuaaagaaa auuauaggac agguaagaga ucaggcugaa 1440

caucuuaaga cagcaguaca aauggcagua uucauccaca auuuuaaaag aaaaggggg 1500

auuggggggu acagugcagg ggaaagaaua guagacauaa uagcaacaga cauacaaacu 1560

aaagaauuac aaaaacaaau uacaaaaauu caaaauuuuc ggguuuauua cagggacagc 1620

agaaauccac uuuggaaagg accagcaaag cuccucugga aaggugaagg ggcaguagua 1680

auacaagaua auagugacau aaaaguagug ccaagaagaa aagcaaagau cauuagggau 1740

uauggaaaac agauggcagg ugaugauugu g 1771

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<211> 54

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<211> 34

<212> DNA

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<223> Synthetic

<400> 161
cacaatcatc acctgccatc tgttttccat aatc 34

<210> 162

<211> 37

<212> DNA

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<400> 162
ggtaatacga ctcactatag gtctctctgg ttagacc 37

<210> 163

<211> 20

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<213> Artificial Sequence

<220>

<223> Synthetic

<400> 163
ctctcagtac aatctttcat 20

<210> 164

<211> 16

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<213> Artificial Sequence

<220>

<223> Synthetic

<400> 164
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<210> 165

<211> 16

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<220>

<223> Synthetic

<400> 165
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<210> 166

<211> 16

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<223> Synthetic

<400> 166
aaaatcctac tccctg 16

<210> 167

<211> 16

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<223> Synthetic

<400> 167
aaaactccta ctccct 16

<210> 168

<211> 16

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<213> Artificial Sequence

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<223> Synthetic

<400> 168
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<210> 169

<211> 16

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<400> 169
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<210> 170

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<400> 170
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<210> 171

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<400> 171
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<210> 172

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<400> 172
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<210> 173

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<400> 173
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<210> 174

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<400> 174
aaaacgggtc ctcct 15

<210> 175

<211> 15

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<400> 175
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<210> 176

<211> 15

<212> DNA

<213> Artificial Sequence

<220>

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<400> 176
aaaagccggg tcctc 15

<210> 177

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

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<400> 177
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<210> 178

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 178
actcttgcct tatggccggg tccta 25

<210> 179

<211> 25

<212> DNA

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<220>

<223> Synthetic

<400> 179
aactcttgcc ttatggccgg gtcca 25

<210> 180

<211> 25

<212> DNA

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<220>

<223> Synthetic

<400> 180
aaactcttgc cttatggccg ggtca 25

<210> 181

<211> 25

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<213> Artificial Sequence

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<400> 181
aaaactcttg ccttatggcc gggta 25

<210> 182

<211> 25

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<220>

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<400> 182
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<210> 183

<211> 25

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<400> 183
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<210> 184

<211> 25

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<400> 184
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<210> 185

<211> 25

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<400> 185
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<210> 186

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<400> 186
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<210> 187

<211> 25

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<400> 187
tcagccaaaa ctcttgcctt atgga 25

<210> 188

<211> 28

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<400> 188
tcgttcagcc aaaactcttg ccttatgc 28

<210> 189

<211> 24

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<400> 189
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<210> 190

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<400> 190
agggagtagg aggagg 16

<210> 191

<211> 13

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<213> Artificial Sequence

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<400> 191
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<211> 28

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<220>

<223> Synthetic

<400> 194
aaaatccctg taataaacc 19

<210> 195

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 195
aaaagtccct gtaataaacc 20

<210> 196

<211> 26

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 196
tcctttccaa agtggatttc tgctga 26

<210> 197

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 197
tcctttccaa agtggatttc tgctc 25

<210> 198

<211> 53

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 198
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<210> 199

<211> 21

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<220>

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<400> 199
aaaactttcc aaagtggatt t 21

<210> 200

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 200
aaaacctttc caaagtgg 18

<210> 201

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 201
ccagaggagc tttgctggtc a 21

<210> 202

<211> 21

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<213> Artificial Sequence

<220>

<223> Synthetic

<400> 202
tccagaggag ctttgctggt a 21

<210> 203

<211> 24

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<220>

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<400> 203
ctgctgtccc tgtaataaac ccga 24

<210> 204

<211> 27

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<213> Artificial Sequence

<220>

<223> Synthetic

<400> 204
atttctgctg tccctgtaat aaacccg 27

<210> 205

<211> 16

<212> DNA

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<223> Synthetic

<400> 205
aaaacttcac ctttcc 16

<210> 206

<211> 16

<212> DNA

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<223> Synthetic

<400> 206
aaaaccttca cctttc 16

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<211> 14

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 207
aaaaactgcc cctt 14

<210> 208

<211> 14

<212> DNA

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<220>

<223> Synthetic

<400> 208
aaaatactgc ccct 14

<210> 209

<211> 36

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 209
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<400> 210
cttttatgtc actattatct tgtattacta ctgcca 36

<210> 211

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<212> DNA

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<220>

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<400> 211
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<210> 212

<211> 36

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 212
ggcactactt ttatgtcact attatcttgt attaca 36

<210> 213

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<212> DNA

<213> Artificial Sequence

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<400> 213
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<210> 214

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<220>

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<400> 214
cagaggagct ttgctggtcc 20

<210> 215

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<220>

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caccttcca gaggagct 18

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<220>

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<400> 216
tcacctttcc agaggagct 19

<210> 217

<211> 14

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<400> 217
aaaacccctg cact 14

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<400> 218
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<400> 219
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<211> 25

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<400> 220
atatatccct tttcttttaa aattg 25

<210> 221

<211> 35

<212> DNA

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<400> 221
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<400> 222
cactgtaccc cccaatccca 20

<210> 223

<211> 37

<212> DNA

<213> Artificial Sequence

<220>

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<400> 223
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<220>

<223> Synthetic

<400> 224
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<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 225
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<210> 226

<211> 22

<212> DNA

<213> Artificial Sequence

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<400> 226
ccgtcacgcc tccccctgca ct 22

<210> 227

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<220>

<223> Synthetic

<400> 227
agtgcagggg gcggcg 16

<210> 228

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

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<400> 228
ccgtcacgcc tccttcacct ttcc 24

<210> 229

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<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 229
ggaaaggtga aggaggc 17

<210> 230

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 230
cctgcttatc acaatgaa 18

<210> 231

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 231
acatgcactt gctacgaaac 20

<210> 232

<211> 461

<212> RNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 232
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uuuaugcaau gcaucaugcu auuucauacc uaaugaggga guuccaggag auucaaccag 120

gaaaugcaug gaucucaaag gaaacaaaca cccaauaaac ucggaguggc agacugacaa 180

cugugagaca ugcacuugcu acgaaacaga aauuucaugu ugcacccuug uuucuacacc 240

uguggguuau gacaaagaca acugccaaag aaucuucaag aaggaggacu gcaaguauau 300

cgugguggag aagaaggacc caaaaaagac cuguucuguc agugaaugga uaaucuaaug 360

ugcuucuagu aggcacaggg cucccaggcc aggccucauu cuccucuggc cucuaauagu 420

caaugauugu guagccaugc cuaucaguaa aaagauuuuu g 461

<210> 233

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<212> DNA

<213> Artificial Sequence

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<223> Synthetic

<400> 233
ccgccaccaa aatgc 15

<210> 234

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<400> 234
gctggaagat ggacg 15

<210> 235

<211> 449

<212> RNA

<213> Artificial Sequence

<220>

<223> Synthetic

<400> 235
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uugaacccuc ggauacgaua gaaaauguaa aggccaagau ccaggauaag gaaggaauuc 120

cuccugacag cagagacuga ucuuugcugg caagcagcug gaagauggac guacuuuguc 180

ugacuacaau auucaaaagg agucuacucu ucaucuugug uugagacuuc gugguggugc 240

uaagaaaagg aagaagaagu cuuacaccac ucccaagaag aauaagcaca agagaaagaa 300

gguuaagcug gcuguccuga aauauuauaa gguggaugag aauggcaaaa uuagucgccu 360

ucgucgagag ugcccuucug augaaugugg ugcuggggug uuuauggcaa gucacuuuga 420

cagacauuau uguggcaaau guugucuga 449

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<400> 236
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<210> 237

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cgggagagcc atagtggtct gcgg 24

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atttgggcgt gcccccgc 18

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<220>

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<400> 239
gaccgggtcc tttcttgga 19

<210> 240

<211> 328

<212> RNA

<213> Hepatitis C virus

<400> 240
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cuagccaugg cguuaguaug agugucgugc agccuccagg acccccccuc ccgggagagc 120

cauagugguc ugcggaaccg gugaguacac cggaauugcc aggacgaccg gguccuuucu 180

uggauaaacc cgcucaaugc cuggagauuu gggcgugccc ccgcaagacu gcuagccgag 240

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ggaggucucg uagaccgugc accaugag 328

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<400> 241
gggacactcc accatagatc actc 24

<210> 242

<211> 328

<212> RNA

<213> Hepatitis C virus

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cuagccaugg cguuaguaug agugucgugc agccuccagg acccccccuc ccgggagagc 120

cauagugguc ugcggaaccg gugaguacac cggaauugcc aggacgaccg gguccuuucu 180

uggaucaacc cgcucaaugc cuggagauuu gggcgugccc ccgcgagacu gcuagccgag 240

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ggaggucucg uagaccgugc accaugag 328

<210> 243

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<212> RNA

<213> Hepatitis C virus

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cuagccaugg cguuaguaug agugucguac agccuccagg cccccccccuc ccgggagagc 120

cauagugguc ugcggaaccg gugaguacac cggaauugcc gggaagacug gguccuuucu 180

uggauaaacc cacucuaugc ccggccauuu gggcgugccc ccgcaagacu gcuagccgag 240

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ggaggucucg uagaccgugc accaugag 328

<210> 244

<211> 24

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<220>

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<400> 244
gggacactcc accatggatc actc 24

<210> 245

<211> 328

<212> RNA

<213> Hepatitis C virus

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cuagccaugg cguuaguacg agugucgugc agccuccagg cccccccccuc ccgggagagc 120

cauagugguc ugcggaaccg gugaguacac cggaaucgcu ggggugaccg gguccuuucu 180

uggaacaacc cgcucaauac ccagaaauuu gggcgugccc ccgcgagauc acuagccgag 240

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ccggaacugu gggcucaucg cuggggcugu cauuggugcu guccuggcug uguuuggagg 180

uauucuaaug ccaguuggag accugcuuau ccagaagaca auuaaaaagc aaguuguccu 240

cgaagaaggu acaauugcuu uuaaaaauug gguuaaaaca ggcacagaag uuuacagaca 300

guuuuggauc uuugaugugc aaaauccaca ggaagugaug augaacagca gcaacauuca 360

aguuaagcaa agagguccuu auacguacag aguucguuuu cuagccaagg aaaauguaac 420

ccaggacgcu gaggacaaca cagucucuuu ccugcagccc aauggugcca ucuucgaacc 480

uucacuauca guuggaacag aggcugacaa cuucacaguu cucaaucugg cuguggcagc 540

ugcaucccau aucuaucaaa aucaauuugu ucaaaugauc cucaauucac uuauuaacaa 600

gucaaaaucu ucuauguucc aagucagaac uuugagagaa cuguuauggg gcuauaggga 660

uccauuuuug aguuugguuc cguacccugu uacuacuaca guuggucugu uuuauccuua 720

caacaauacu gcagauggag uuuauaaagu uuucaaugga aaagauaaca uaaguaaagu 780

ugccauaauc gacacauaua aagguaaaag gaaucugucc uauugggaaa gucacugcga 840

caugauuaau gguacagaug cagccucauu uccaccuuuu guugagaaaa gccagguauu 900

gcaguucuuu ucuucugaua uuugcagguc aaucuaugcu guauuugaau ccgacguuaa 960

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aaaaauaaau acaacacacc caaauacagg augauaguuc gugugacaaa cagagauauc 180

auuugucaga uugcuuaugc ccguauagag ggggauauga uagucugcgc acguuaugca 240

cacgaacugc caaaauaugg ugugaagguu ggccugacaa auuaugcugc agcauauugu 300

acuggccugc ugcuggcccg caggcuucuc aauagguuug gcauggacaa gaucuaugaa 360

ggccaagugg aggugacugg ugaugaauac aauguggaaa gcauugaugg ucagccaggu 420

gccuucaccu gcuauuugga ugcaggccuu gccagaacua ccacuggcaa uaaaguuuuu 480

ggugcccuga agggagcugu ggauggaggc uugucuaucc cucacaguac caaacgauuc 540

ccugguuaug auucugaaag caaggaauuu aaugcagaag uacaucggaa gcacaucaug 600

ggccagaaug uugcagauua caugcgcuac uuaauggaag aagaugaaga ugcuuacaag 660

aaacaguucu cucaauacau aaagaacagc guaacuccag acaugaugga ggagauguau 720

aagaaagcuc augcugcuau acgagagaau ccagucuaug aaaagaagcc caagaaagaa 780

guuaaaaaga agagguggaa ccgucccaaa augucccuug cucagaagaa ggaucgggua 840

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cggccagaag ccaguagucc gggagcgugg acccuauguc uacagggagu ucagacaaaa 180

ggucaacauc accuucaaug acaacgacac cguguccuuc guggagaacc gcagccucca 240

uuuccagccu gacaagucgc auggcucaga gagugacuac auuguacugc cuaacaucuu 300

gguccugggg ggcucgauau ugauggagag caagccugug agccugaagc ugaugaugac 360

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gugggggcuau gacgaucccu ucgugcauuu ucucaacacg uaccucccag acaugcuucc 480

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ugucuucacg ggcguccaga auuucagcag gauccaucug guggacaaau ggaacggacu 600

cagcaagauc gauuauuggc auucagagca guguaacaug aucaauggga cuuccgggca 660

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cagguccaug aagcugaccu acaacgaauc aaggguguuu gaaggcauuc ccacguaucg 780

cuucacggcc cccgauacuc uguuugccaa cggguccguc uacccaccca acgaaggcuu 840

cugcccaugc cgagagucug gcauucagaa ugucagcacc ugcagguuug gugcgccucu 900

guuucucucc caccccacu uuuacaacgc cgacccugug uugucagaag cuguucuugg 960

ucugaacccu aacccaaagg agcauuccuu guuccuagac auccauccgg ucacugggau 1020

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accggacagu gcaacacggc gucaccauca gucugggcgu cugggcggcg gccaucuuag 300

uggcgucgcc ccaguucaug uucacaaaga gaaaggacaa cgaauguuug ggugauuacc 360

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ucguccugcc cuugcuuauc augagcuuuu gcuacuuccg caucguccgg acgcuguuuu 480

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acuucuuccc uaguuguggc augaagaggg accugaggug ggcccuuagu gugacggaga 660

caguggcguu uagccacugc ugccucaacc ccuuuaucua cgcuuucgcu ggggaaaagu 720

ucagaaggua ccugagacac cuguacaaca agugccuggc cguccugugc ggucguccug 780

uccacgccgg cuucucaaca gagucccaga ggagcaggca ggacagcauu cugagcagcu 840

ugacucacua cacaagcgag ggagagggau cucuccugcu cugaaggguc uccccgaccc 900

cgacucuacu aagaacccag aguuccugca ucugacucug uguaaugaaa acagauucac 960

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cugcccucug gauggcggca uccagcuacg aaucuccgac caccacuaca gcaagggcuu 180

caggcaggcc gcgucaguug uuguggccau ggacaagcug aggaagaugc ugguucccug 240

cccacagacc uuccaggaga augaccugag caccuucuuu cccuucaucu uugaagaaga 300

accuaucuuc uucgacacau gggauaacga ggcuuaugug cacgaugcac cuguacgauc 360

acugaacugc acgcuccggg acucacagca aaaaagcuug gugaugucug guccauauga 420

acugaaagcu cuccaccucc agggacagga uauggagcaa caaguggugu ucuccauguc 480

cuuuguacaa ggagaagaaa guaaugacaa aauaccugug gccuugggcc ucaaggaaaa 540

gaaucuguac cuguccugcg uguugaaaga ugauaagccc acucuacagc uggagagugu 600

agaucccaaa aauuacccaa agaagaagau ggaaaagcga uuugucuuca acaagauaga 660

aaucaauaac aagcuggaau uugagucugc ccaguucccc aacugguaca ucagcaccuc 720

ucaagcagaa aacaugcccg ucuuccuggg agggaccaaa ggcggccagg auauaacuga 780

cuucaccaug caauuugugu cuuccuaaag agagcuguac ccagagaguc cugugcugaa 840

uguggacuca aucccuaggg cuggcagaaa gggaacagaa agguuuuuga guacggcuau 900

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aaccacggcc acauuugguu cuaagaaacc cucugucauu cgcucccaca uucugaugag 1140

caaccgcuuc ccuauuuauu uauuuauuug uuuguuuguu uuauucauug gucuaauuua 1200

uucaaagggg gcaagaagua gcagugucug uaaaagagcc uaguuuuuaa uagcuaugga 1260

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<212> RNA

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agcuguggcc gaguuaauag cccuggguau aguaacaaug uugaauauga aucuuuugcg 180

agaugaaaug ggugauccgc agccaagucc uaagggcauu uuugucuaug gaugcaguuc 240

aacgacuaga uggcaguggg uauuguaagg aauugcaguu uucuugcagu gcuuaaggua 300

uagucuaucc ucuuucgaaa gaaagaguau au 332

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<212> RNA

<213> Candida albicans

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aggccucgaa gcaguguuca ccuugggagu gcgcaagcac aaagagguga gugguguaug 180

ggguuaaucc cguggcgagc cgucagggcg cgaguucugg caguggccgu cguagagcac 240

ggaaagguau gggcuggcuc ucugagucgg cuuaagguac gugccguccc acacgaugaa 300

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ggagcaau 368

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<211> 244

<212> RNA

<213> Bombyx mori

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gauccuaauc caugaugauu acgaccugag ucacuaaaga cgauggcaug augauccggc 240

gaug 244